

ABSTRACT

The invention relates to a method and installation for producing liquid energy carriers from a solid carbon carrier by means of gasifying a solid carbon carrier. The installation is at least comprised of a drying device (1), a gasification apparatus (2), a synthesizing device (3) for synthesizing the liquid energy carrier, a device (4) for effecting the electrolysis of water for producing oxygen serving as a gasification agent and hydrogen for the synthesis process, and of a combustion apparatus (5), which is connected to the output of the gasification apparatus (2) for carbon-containing gasification residues (I) and to the oxygen outlet (C2) of the device for effecting the electrolysis of water (4). According to the invention, at least a portion of the waste steam from the drying device and at least a portion of the residual gas arising during synthesis are fed to the gasification process in the gasification apparatus. In addition, the carbon-containing residuals (I) from the gasification apparatus (2) and a portion of the oxygen (C2) produced in the device for effecting the electrolysis of water (4) can be fed to a combustion apparatus (5), and the carbon dioxide-containing and oxygen-containing waste gas from the combustion apparatus (K) can be fed to the combustion apparatus (2) in the form of a gasification agent.